



Before using your air-conditioner, please read this operating instructions carefully and keep it for future reference.



Panasonic

Air Conditioner

OPERATING INSTRUCTIONS

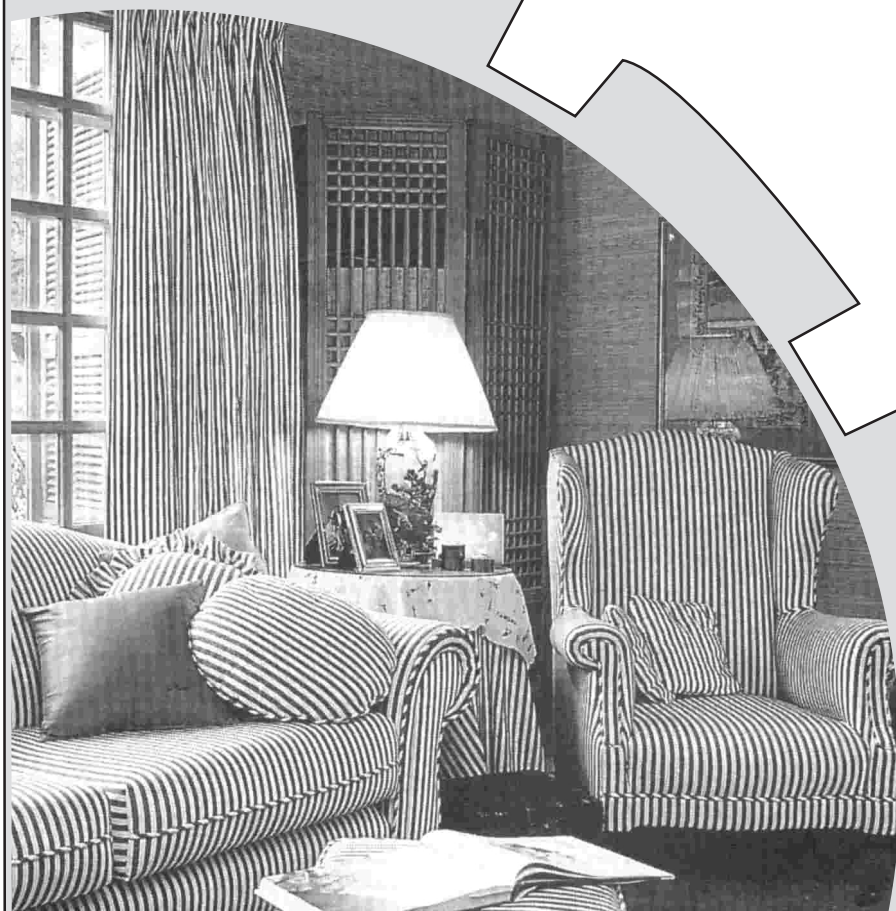
Indoor Unit Models: Outdoor Unit Models:

CS-PE9CKE

CU-PE9CKE

CS-PE12CKE

CU-PE12CKE



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MATSUSHITA AIR-CONDITIONING CORP.
XIECUN, ZHONGCUN TOWN, PANYU DISTRICT.
GUANGZHOU CITY, GUANGDONG PROVINCE, CHINA

Thank you very much for purchasing Panasonic Split Type Room Air Conditioner.

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Safety Precautions

Before operating, please read the following "Safety Precautions" carefully.

- To prevent personal injury, injury to others and property damage, the following instructions must be followed.
- Incorrect operation due to failure to follow instructions will cause harm or damage, the seriousness of which is classified as follow:

Warning

This sign warns of the possibility of death or serious injury.

Caution

This sign warns of the possibility of injury or damage to property.

- The instructions to be followed are classified by the following symbols:




This symbol (with a white background) denotes an action that is PROHIBITED.



These symbols (with a black background) denote actions that are COMPULSORY.

■ Installation Precautions

Warning

-  Do not install, relocate or repair the unit by yourself.
Improper installation may cause leakage, electric shock or fire.
Please consult an authorized dealer or specialist for the installation work.

Caution

Ensure that the following installation precautions have been applied before installing the air conditioner.

- **This air conditioner must be earthed, or specialist for the installation work.**

Improper grounding could cause electric shock or fire.



- **Ensure that the drainage pipings are properly** Water leakage could happen due to improper connection thus cause inconvenience.

- **Replacement or installation of power plugs shall be performed only by authorised/qualified personnels.**

The wires in this main lead are coloured in accordance with the following code:

Green-and-yellow: Earth
Blue : Neutral
Brown : Live



- **Do not install the unit in a potentially explosive atmosphere. Otherwise, fire or other hazard may occur.**

■ Operation Precautions

⚠ Warning

- Do not share outlet.
- Do not insert plug to operate the unit. Do not pull out plug to stop the unit.
- Do not operate with wet hands.
- Do not damage or modify the power cord.
- Do not insert finger or other objects into the indoor or outdoor units.
- Do not expose directly to cold air for a long period.
- Do not touch the back of the outdoor unit by hands.



- Plug in properly.
- Use specified power cord.



- If abnormal condition (burnt smell, etc.) occurs, switch off and unplug the power supply.



⚠ Caution



- Do not pull the cord to disconnect the plug.
- Do not wash the unit with water.
- Do not use for other purposes such as preservation.
- Do not use any combustible equipment at airflow direction.
- Do not sit or place anything on the outdoor unit.



- Ventilate the room regularly.
- Pay attention as to whether the installation rack is damaged after long period of usage.



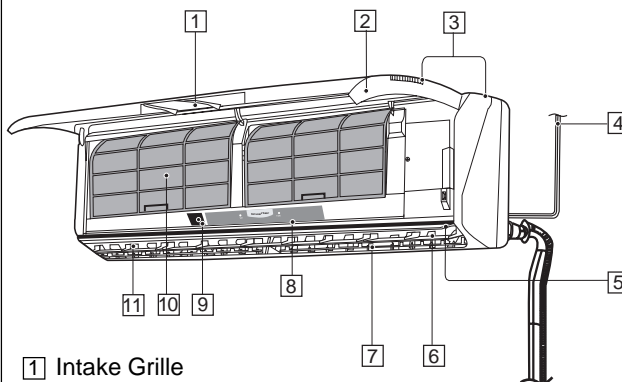
- Switch off the power supply if the unit is not used for a long period.



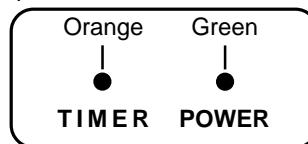
- Switch off the power supply before cleaning.

Names of Each Part

■ Indoor Unit

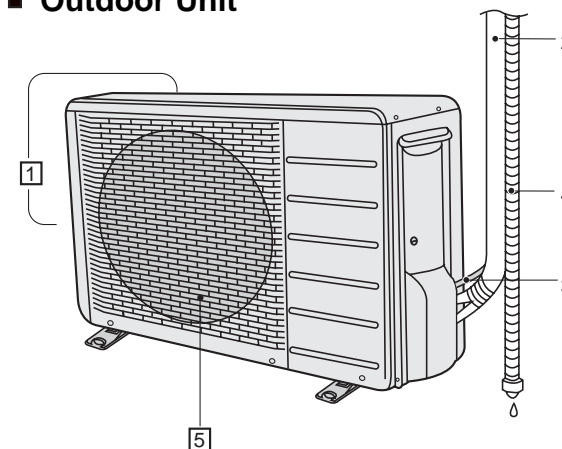


- 1 Intake Grille
- 2 Intake Grille Opener
- 3 Air Intake Vent
- 4 Power Supply Cord
- 5 Remote Control Signal Receiver
- 6 Vertical Airflow Direction Louver
- 7 Horizontal Airflow Direction Louver(manually adjusted)
- 8 Operation Indicator



- 9 Auto Operation / Test Run Operation
If the remote control not available, press the button for Auto Operation. Keeping this button depressed for more than 5 seconds to start the Test Operation (Cool Operation) and 8 seconds to start the Test Operation (Heat Operation), for the purpose of installation or repairment only.
- 10 Air Filter
- 11 Air Outlet Vent

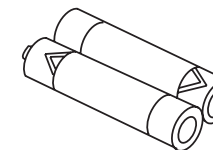
■ Outdoor Unit



- 1 Air Inlet Vent
- 2 Pipes
- 3 Connecting Cables
- 4 Drain Hose
- 5 Air Outlet Vent

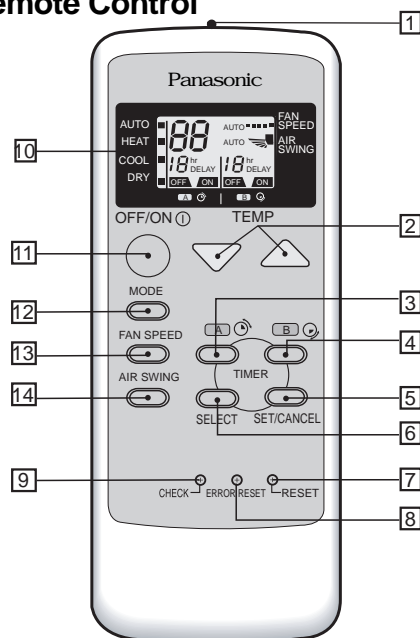
■ Accessories

- Remote Control
- Two dry-cell batteries.



Names of Each Part

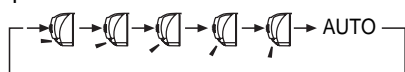
Remote Control



- 1 Signal Transmitter
- 2 Room Temperature Setting Button
- 3 Time Adjusting Button A
- 4 Time Adjusting Button B
- 5 Timer Setting/Cancellation Button
- 6 Timer Selecting Button
- 7 Remote Control Reset Button

- If the display is chaotic or can not be adjusted, use a pin to gently press this button to reset the remote control to the original set by manufacturer.

- 8 Unit Error Reset Button
- 9 Error Check Button
- 10 Display Panel
- 11 Operation Button
- 12 Operation Mode Selection Button



- 13 Fan Speed Selection
- 14 Airflow Direction Control Button

Remote Control Signal

- Make sure it is not obstructed.
- Maximum distance: 10 m.
- Signal received sound.
One short beep or one long beep.

Notes for Remote Control

- Direct the remote control towards the signal receiver of the Indoor Unit.
- Do not drop or throw the remote control.
- Do not leave the remote control in a place subject to direct sunlight or near heat sources such as radiator.
- Do not get it wet.

How to Insert the Batteries

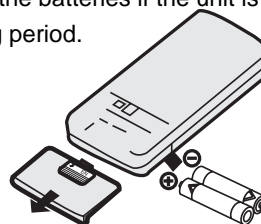
- Remove the remote control back cover completely
- Insert the batteries
– Be sure the direction is correct

About the Batteries

- Can be used for approximately one year.

Observe the Following When Replacing the Batteries

- Replace with two new batteries of the same type.
- Do not use rechargeable batteries (Ni-Cd).
- Remove the batteries if the unit is not to be used for a long period.



To Start the Operation

- Press operation **OFF/ON** button.
- POWER indicator (green) on the indoor unit will light up.
- To stop, press operation **OFF/ON** once more.

Setting Mode

- Press **MODE** to select:

AUTO – Automatic Operation
HEAT – Heating Operation
COOL – Cooling Operation
DRY – Soft Dry Operation

Setting Temperature

- Press **TEMP** to increase or decrease the temperature.
- The temperature can be set between 16°C ~ 30°C.
- Recommended setting temperature:
Heating : 20°C ~ 22°C
Cooling : 26°C ~ 28°C
Soft Dry : 22°C ~ 26°C

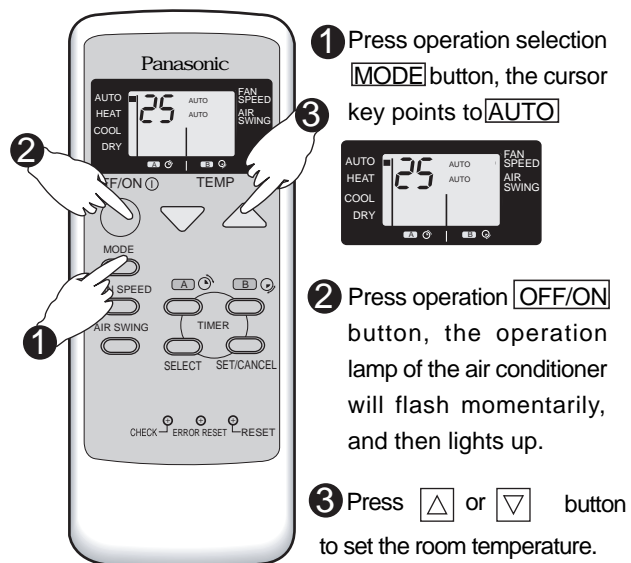
Fan Speed Control

- Press **FAN SPEED** to select:

Fan Speed	Remote Control Display
AUTO	AUTO Fan Speed
SUPER LOW	■ Fan Speed
LOW	■ ■ Fan Speed
MEDIUM	■ ■ ■ Fan Speed
HIGH	■ ■ ■ ■ Fan Speed
SUPER HIGH	■ ■ ■ ■ ■ Fan Speed

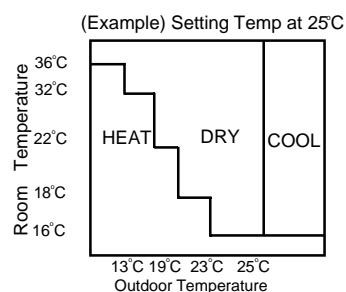
Basic Operation

Automatic Operation

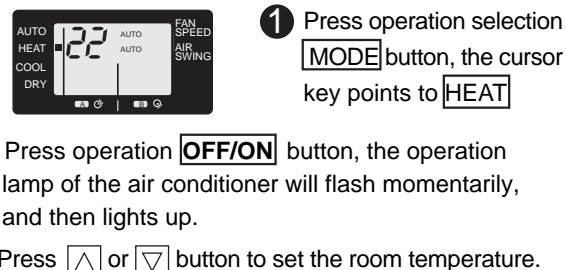


Notes: 1. During Automatic Operation, the operation mode will be selected automatically in accordance with the room temperature, outdoor air temperature and set temperature of remote control.

2. The operation mode changes every half hour if necessary.



Heating Operation

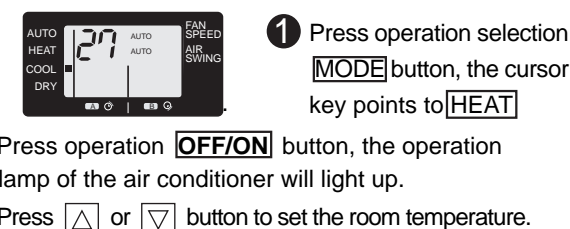


Notes: 1. Heat is obtained from outdoor air to warm up the room. When the outdoor ambient air temperature falls, the heating capacity of the unit might be reduced.

2. Defrosting Operation
Depend on the outdoor temperature, the operation occasionally stops to melt the frost on the outdoor unit.

3. The recommended set temperature is 20~22°C.

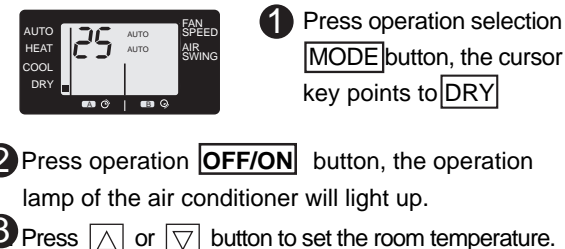
Cooling Operation



Notes : 1. When setting the automatic airflow during Cooling Operation, changes in speed and movements of louvers, which swing in up and down manner forms a natural breeze condition.

2. The recommended set temperature is 26~28°C.

Soft Dry Operation



Notes: 1. The purposes of Soft Dry Operation : to maintain the room temperature at the set temperature, prior to dehumidification.

2. When setting the automatic airflow during Soft Dry Operation, changes in speed and movements of louvers, which swing in up and down manner forms a natural breeze condition.

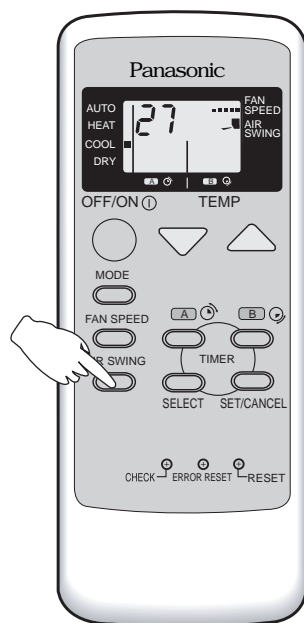
3. During Soft Dry Operation, the fan will run at Low fan speed, and on/off operation will occur occasionally.

4. The recommended set temperature is 22~26°C.

Recommendation : Select this mode in the rainy day or when the humidity is high.

Basic Operation

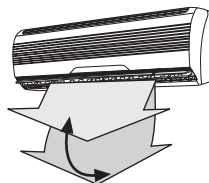
■ Setting the Vertical Airflow Direction



● Auto Airflow Direction

Press **AIR SWING** button to select auto airflow direction.

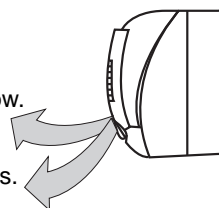
Cool/Dry: The vertical airflow louvers swing up and down to form a natural breeze.



Heat: When the outlet air temperature is low, the vertical airflow louvers will position a horizontal level and will be at a downward position as the temperature increases.

When temperature is low.

When temperature rises.

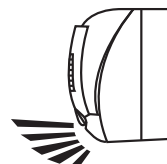


● Manual Airflow Direction

Press **AIR SWING** button to select manual airflow direction.

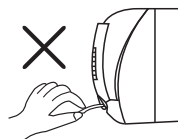
5 stages can be obtained.

Heat: When the outlet air temperature is low, the vertical airflow louvers will position a horizontal level and will be at a downward position as the temperature increases.

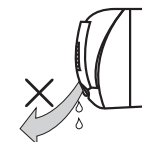


Notes:

- Ensure that the angles of the vertical airflow direction louvers are adjusted by using the remote control. If it were manually adjusted, the proper mechanism of the louvers may be affected. If such a case, turn off the air conditioner temporarily and then restart the operation.



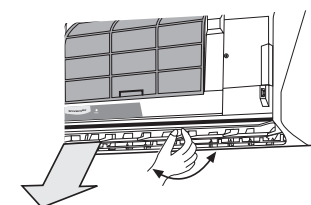
- During Cooling and Soft Dry operations, please avoid the vertical airflow direction louvers from positioning in a downward direction for a long period. Otherwise, if condensation occurred near the airflow direction louver and air outlet vents, it may result in water dripping.



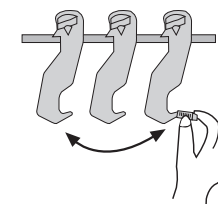
- After the air conditioner stopped and restarted immediately, the compressor will not operate within 3 minutes. (For compressor protection purposes.)

■ Setting the Horizontal Airflow Direction

The Horizontal Airflow direction can be manually controlled.

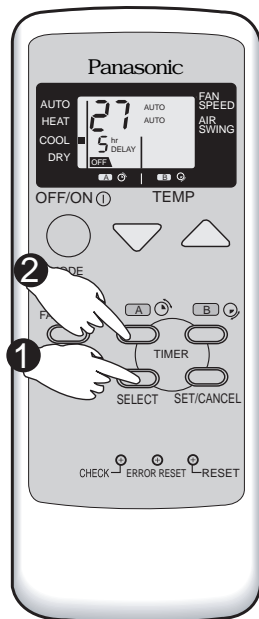


To adjust the horizontal airflow direction, manually move the Horizontal Airflow Direction Louver.



Setting the Timer

To start or stop the air conditioner automatically.



■ Delay OFF Timer

For example, to stop the air conditioner 5 hours later.

- 1 To select the Delay OFF Timer, press the **SELECT** button once.
- 2 Press the button **A** to select the delay hour.



■ Delay ON Timer

For example, to start the air conditioner 2 hours later.

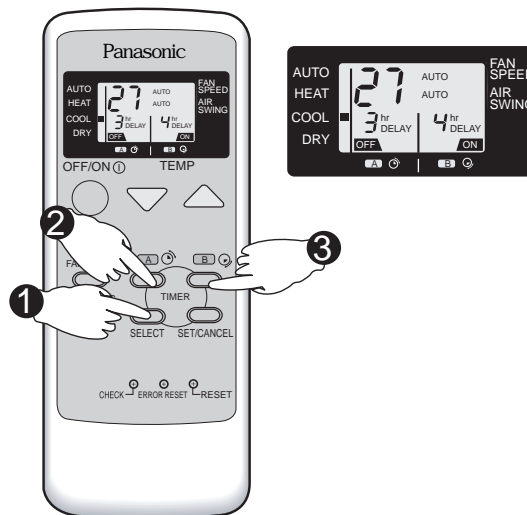
- 1 To select the Delay OFF Timer, press the **SELECT** button twice.
- 2 Press the button **A** to select the delay hour.



■ Delay OFF Time and ON Timer

For example, to stop the air conditioner 3 hours later and start 4 hours later.

- 1 To select the Delay OFF and ON Timer, press the button **SELECT** 3 times.
- 2 Press the button **A** to select the delay hour for OFF Timer.
- 3 Press the button **B** to select delay hour for ON Timer.



■ Delay ON and OFF Timer

For example, to start the air conditioner 7 hours later and stop 10 hours later.

- 1 To select the Delay ON and OFF Timer, press the button **SELECT** 4 times.
- 2 Press the button **A** to select the delay hour for ON Timer.
- 3 Press the button **B** to select delay hour for OFF Timer.



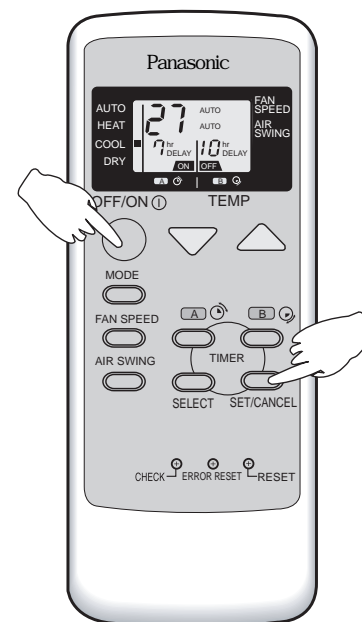
■ To Confirm the Timer Setting

Press the **SET/CANCEL** button once to activate the timer operation which will start when the set time is reached.

■ To Cancel the Timer Setting

Press the **SET/CANCEL** button to cancel the timer operation.

Alternatively by pressing the **OFF/ON** button to cancel the timer setting.



- Press the **SET/CANCEL** button again to display and activate the previous timer setting.

Care and Maintenance

Before cleaning or servicing, switch off the power.

Periodical cleaning and maintenance are required in order to maintain the air conditioner performance and save electricity.

Caution

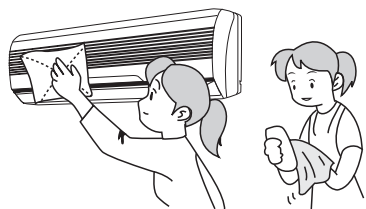


- Do not get it wet to avoid electric shock. Avoid using water in any of the circumstances.
- Volatile liquid such as thinner or benzene may deteriorate the finishing of the air conditioner.



■ Clean the remote control and indoor unit

Wipe gently with a piece of soft, dry cloth.



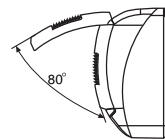
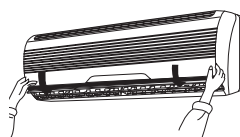
Do not use water hotter than 40°C or polishing fluid to clean the unit.



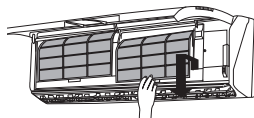
■ Clean the air filters

Recommendation: If the unit is operated in a dusty environment, clean the filters every two weeks, continuous use of these dirty filters will reduce cooling or heating capacity.

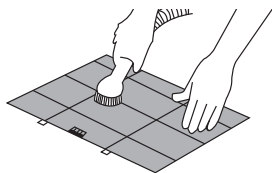
1. Gently lift up the intake grille by the left and right side.



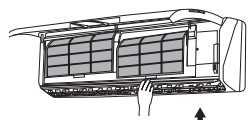
2. Pull out the two air purifying filters.



3. Remove the dirt with a vacuum cleaner and wash the back of the air filters with water. Then dry it in shade. If badly soiled, wash it with soap or household detergent.



4. Reinstall the air filters.



Be sure the "FRONT" mark is facing you.

5. Close the intake grille.



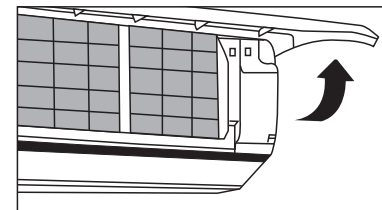
Damaged air filter.

Consult the nearest authorized dealer.
Part No.: CWD001127

■ Cleaning the Front Panel

(Must be removed before washing)

1. Raise the front panel higher than the horizontal and pull to remove it.

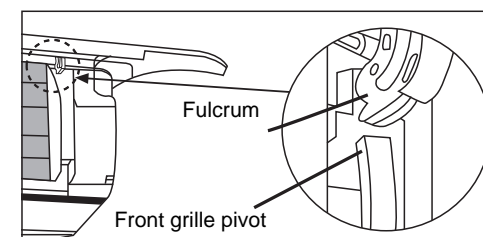


2. Gently wash with water and a sponge.

- Do not press the front panel too hard when washing.
- When use kitchen cleaning fluid (neutral detergent), rinse thoroughly.
- Do not dry the front panel under direct sunlight.



3. To fix the front panel, raise the front panel horizontally, match the protruding portion on the indoor unit to the fulcrum and push into place.



■ Pre-season Inspection

- **Is the discharged air cold/warm?**
Operation is normal if 15 minutes after the start of operation, the difference between the air intake and outlet vents temperature is:

Cooling : 8°C or above
Heating : 14°C or above

- **Are the air intake or outlet vents of the indoor or outdoor units obstructed?**
- **Are the remote control batteries weak?**
If the remote control display appears weak, replace the batteries.

■ When the Air Conditioner is Not To Be Used for an Extended Period of Time

- 1 To dry the internal parts of the indoor unit, operate the unit for 2 ~ 3 hours using:

Operation mode : cooling
Set temperature : 30°C

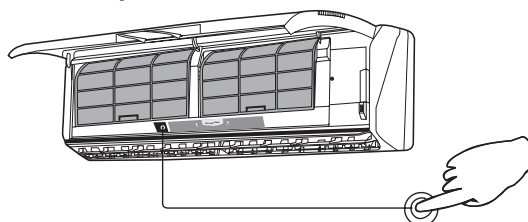
- 2 Turn off the power supply and unplug.
- 3 Remove the remote control batteries.

■ Recommended Inspection

- After used over several seasons, the unit will become dirty and thus decreases the unit's performance. Depending on the operation conditions, a dirty unit may produce odour and dust may pollute dehumidification system. Therefore, a seasonal inspection is recommended in addition to regular cleaning. (Consult an authorized dealer).

Helpful Information

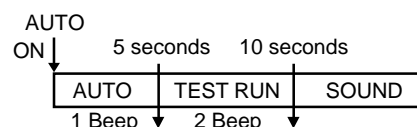
Auto Operation Button



■ Automatic Operation

- If the remote control fails to function or has been misplaced, press the Auto Operation button to start the Automatic operation.
- The Automatic operation will be activated immediately once the Auto operation button is pressed. However, temperature cannot be adjusted in this operation.
- The power indicator on the indoor unit will blink until the operation mode is selected automatically.
- To cancel this operation, press this button once more.

■ Remote Control Signal Receiving Sound



- To switch off the beep (Signal Receiving Sound), press the Auto Operation button for 10 seconds continuously or longer.
- Repeat the above steps if you want to switch on the Signal Receiving Sound.

■ Timer Setting

- When power failure occurs, the timer setting will be cancelled. Once power is resumed, reset the timer.

■ Thunder and Lightning

- This air conditioner is equipped with a built-in surge protective device. However, in order to further protect your air conditioner from being damaged by abnormally strong lightning activity, you may switch off the main power supply and unplug from power socket.

Auto Restart Control

If power is resumed after a power failure, the operation will restart automatically after 3-4 minutes. Operation will be restarted automatically under the previous operation mode and airflow direction when power is resumed as the operation is not stopped by the remote control.

Energy Saving and Operation Hints

■ Setting the Temperature

Set the temperature higher or lower than the desired temperature.

Cooling Operation : 1°C higher

Heating Operation : 2°C lower

Approximately 10% of electricity can be saved.

■ Air Filters

- Clean the air filters every 2 weeks.
- Dirty filters may reduce cooling or heating efficiency.

■ Keep All Doors and Windows Closed

- Otherwise, cooling or heating performance will be reduced and electricity cost is wasted.

■ Outdoor Unit

- Do not block the air outlet vent. Otherwise, it will lower the cooling or heating performance.

■ Avoid Direct Sunlight

- Keep curtains or drapes closed to avoid direct sunlight during cooling operation.

Trouble Shooting

■ Normal Operation

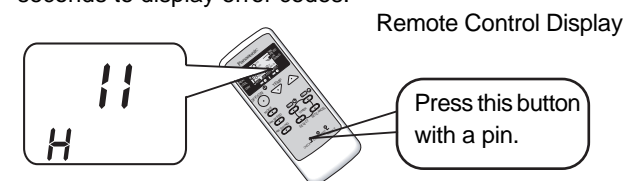
Is it okay?	This is the answer
Air conditioner has been restarted, but does not operate for 3 minutes.	● This is to protect the air conditioner. Wait until the air conditioner begins to operate.
A sound like water flowing can be heard.	● This is the sound of refrigerant flowing inside the air conditioner.
It seems that fog is coming out from the air conditioner.	● Condensation occurs when the airflow from the air conditioner cools the room.
The room has a peculiar odour.	● This may be a damp smell emitted by the wall, carpet, furniture or clothing in the room.
During Automatic Fan speed, indoor fan stops occasionally.	● This is to remove smell emitted by the surroundings.
The outdoor unit emits water or steam.	● In COOL/DRY operation, moisture in the air condenses into water on the cool surface of outdoor unit piping that causes dripping.
Operation stops for about 12 minutes during heating operation (The power indicator blinks).	● This is to melt the frost which has accumulated on the outdoor unit (defrosting operating). This will take no longer than about 12 minutes. Water drips from the outdoor unit. Wait until this operation ends. (The power indicator will light up). (Frost will accumulate on the outdoor unit when the outdoor temperature is low and humidity is high.)
During heating operation, indoor fan may run at on and off conditions.	● This is to prevent undesired cooling effect during heating operation.

■ Abnormal Operation

Is it okay?	Please check
The air conditioner does not operate.	<ul style="list-style-type: none"> ● Has the circuit breaker been tripped? ● Has the power plug been removed from the wall outlet? ● Is the timer being used correctly?
Air conditioner produces loud noise during operation.	<ul style="list-style-type: none"> ● Is the installation work slanted? ● Is the front grille closed properly?
The air conditioner does not cool or warm effectively.	<ul style="list-style-type: none"> ● Has the temperature been set incorrectly? ● Are the filters dirty? ● Are the intake or outlet vents of the outdoor unit obstructed? ● Are all windows and doors closed?

■ Self Diagnosis

When the Timer LED blinks indicating abnormality, keep the check button on remote control depressed for 5 seconds to display error codes.



Press the TEMP UP or Down button to identify the error code. Beep sound (4 times) will be heard for the correct error code shown. Inform the error code to an authorized dealer. If one of the following error codes is displayed, temporary operation is possible.

Error Code	Allowable Temporary Operation
H23	Cooling
H27	Heating
H28	Cooling

• Temporary Operation

1. Press the **MODE** button and select Heating or Cooling.
2. Press the operation **OFF/ON** button ('beep! beep! beep! beep!' sound is heard).
* Use the operation temporarily, until repairs can be made.

■ Call The Dealer Immediately

If the following conditions occur, turn off and unplug the main power supply, and then call the dealer immediately.

- **Abnormal noise is heard during operation.**
- **Water or foreign material gets into the remote control by mistake.**
- **Water leaks from the indoor unit.**
- **Switches or buttons do not operate properly.**
- **The circuit breaker switches off frequently.**
- **Power supply cord and plug become unusually warm.**

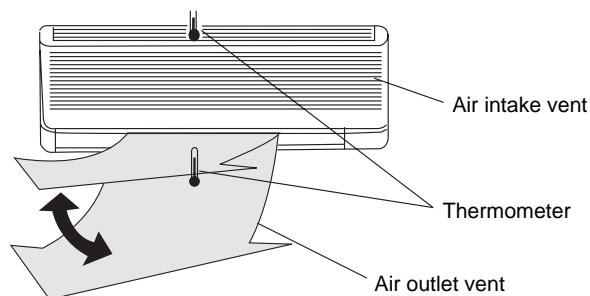
Evaluation of the Performance

Operate the unit for 15 minutes or more;

Measure the temperature of the intake and outlet air;

The temperature difference is more than 8°C during Cooling operation or more than 14°C during Heating operation.

If the unit fulfils the above conditions, the unit is in normal operation.



Use this air conditioner under the following conditions:

Unit in °C

DBT: Dry Bulb Temp WBT: Wet Bulb Temp	Indoor		Outdoor	
	DBT	WBT	DBT	WBT
Maximum Temperature – Cooling	32	23	43	26
Minimum Temperature – Cooling	16	11	16	11
Maximum Temperature – Heating	30	-	24	18
Minimum Temperature – Heating	2	-	-5	-6

Safety Notes

⚠ WARNING

- 1) This appliance must be earthed.
- 2) If the supply cord is damaged or need to be replaced, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- 3) Remove power plug or disconnect from the mains before servicing this appliance.
- 4) Do not repair by yourself .
In case of malfunction of this appliance, do not repair by yourself.
Contact to the sales dealer or service dealer for a repair.
- 5) Do not use in an explosive atmosphere.
Do not use this appliance in a potentially explosive atmosphere.
- 6) Disconnect the power plug (isolation from main power supply).
Disconnect the power plug from the receptacle, or switch off the breaker, or switch off the power, disconnecting mains plug to isolate the equipment from the main power supply in case of an emergency.
- 7) This appliance is not intended for use by young children or infirm persons without supervision.
- 8) Young children should be supervised to ensure that they do not play with the appliance.

⚠ CAUTION

DISCONNECT THE MAINS PLUG FROM THE SUPPLY SOCKET WHEN NOT IN USE , WHERE SUPPLY CONNETION IS VIA MAINS PLUG.

Airborne noise :

A-weighted sound pressure level of this appliance is less than 70dB(A) under the JIS C 9612 test conditions.


Maximum cooling operation
1 m from the unit

IMPORTANT

The wires in this power supply cord are coloured in accordance with the following code :

Green and Yellow : Earth
Blue : Neutral
Brown : Live

“As the colours of the wires in the power supply cord of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked by the letter **E** or by safety earth symbol  or coloured green and yellow.

The wire which is coloured blue must be connected to the terminal which is marked with letter **N** or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with letter **L** or coloured red.”